

## CLAIMS

1. A pressure sensor comprising a housing with a bottom part (2) and a sidewall extending upwardly and forming an opening in an upper surface of the housing, a pressure  
5 sensing arrangement (7), and a membrane (6) covering the opening to provide a substantially closed cavity (28) in the housing, characterised in that the housing comprises an intermediary member (4) attached between the bottom part and the membrane and comprising an aperture (5)  
10 forming at least a part of the cavity.
2. A sensor according to claim 1, wherein the intermediary member forms the sidewall of the cavity.
3. A sensor according to claim 1 or 2, wherein the aperture (5) has a profile matching a profile of the  
15 pressure sensing arrangement when viewed in the same cross-sectional plane.
4. A sensor according to any of the preceding claims, wherein the intermediary member and the bottom part are joined in matching plane surfaces.
- 20 5. A sensor according to any of the preceding claims, wherein the intermediary member is attached to the bottom part by welding.
6. A sensor according to any of the preceding claims, wherein the membrane is fastened to the intermediary  
25 member.

7. A sensor according to any of the preceding claims, wherein the intermediary member is made from a plate shaped material in a stamping process.

8. A sensor according to any of the preceding claims,  
5 comprising a channel for filling the cavity with a pressure-transmitting medium, the channel being formed between the bottom part and the intermediary member.

9. A sensor according to any of the preceding claims, wherein the membrane is attached to a first contact flange  
10 (21) of an upper surface of the intermediary member, the first contact flange forming a circumferentially extending elevation of the upper surface.

10. A sensor according to claim 9, further comprising a supporting ring (9) having a second contact flange (22) of  
15 a lower surface of the supporting ring, the second contact flange being attached to an outer surface of the membrane above the first contact flange, the second contact flange forming a circumferentially extending elevation of the lower surface.

20 11. A method of making a pressure sensor comprising a housing with a cavity having an opening in an upper surface of the housing, a pressure sensing arrangement placed in the cavity for sensing pressure, and a membrane  
(3) covering the opening and attached to the housing to  
25 provide a substantially closed space (28) in the cavity, wherein a bottom part and an intermediary member is assembled to form the housing, characterized that the intermediary member (2) is attached between the bottom

part and the membrane and forms at least a part of the cavity.

12. A method according to claim 11, wherein at least one of the bottom part and the intermediary member is formed  
5 in a stamping process.